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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,592	11/21/2003	Joseph John Vandenberg	4189-PA27	3276	
29370 7:	590 01/30/2006		EXAMINER		
ROBERT A. PARSONS 4000 N. CENTRAL AVENUE, SUITE 1220 PHOENIX, AZ 85012			RAHLL, JERRY T		
			ART UNIT	PAPER NUMBER	
			2874		
			DATE MAILED: 01/30/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability

Application No.	Applicant(s)		
10/719,592	VANDENBERG, JOSEPH JOHN		
Examiner	Art Unit		
Jerry T. Rahll	2874		

Notice of Allowability	Examiner	Art Unit				
	Jerry T. Rahll	2874				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS			
1. This communication is responsive to						
2. 🔀 The allowed claim(s) is/are <u>1-20</u> .						
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).		,			
 Certified copies of the priority documents have 	been received.					
2. Certified copies of the priority documents have	been received in Application No	·				
3. Copies of the certified copies of the priority do	cuments have been received in this i	national stage applica	tion from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of this application.	complying with the re	quirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER'	S AMENDMENT or N	OTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date		,				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the d).	back) of			
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT. 			Note the			
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Attachment(s)	· —					
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		D-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.					
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. Examiner's Amendn	nent/Comment				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance			
	9. Other					
	AMILA ENOVETIMAN	Jerry T Rahll				
	PRIMARY EXAMINER	has Im				

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

Notice of Allowability

Part of Paper No./Mail Date 20060124

DETAILED ACTION

1. Please not that this office action points out the same allowable subject matter of the action mailed on 09 May 2005. Due to examiner error, the previous action did not list all allowable claims.

Drawings

2. The drawings submitted on 10 August 2005 have been reviewed and determined to facilitate understanding of the invention. The drawings are accepted as submitted.

Allowable Subject Matter

- 3. The following is an examiner's statement of reasons for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Claims 1-20 are allowed. Claims 1-20 describe an optical component alignment apparatus including a supporting substrate having a component mounting surface, a thermally conductive material positioned on first area of the component mounting surface, an optoelectronic component positioned on the thermally conductive material, the optoelectronic component defining an optical axis substantially parallel the component mounting surface, a conductive layer positioned on the component mounting surface adjacent the thermally conductive material, a dielectric layer formed on the conductive layer, where the conductive layer and the dielectric layer define a bondline thickness, and an optical block fixedly positioned on the dielectric layer, defining an optical axis substantially parallel with the component

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mounting surface and the bondline thickness selected to align the optical axis of the optical block to the optical axis of the optoelectronic component.

- 5. U.S, Patent No. 6,713,862 to Palanisamy et al. describes an optical component alignment apparatus (99) including a supporting substrate (100) having a component mounting surface, a thermally conductive material (102) positioned on first area of the component mounting surface, an optoelectronic component (104) positioned on the thermally conductive material, the optoelectronic component defining an optical axis substantially parallel the component mounting surface, a dielectric layer (106) formed on the conductive substrate (100), where the conductive layer and the dielectric layer define a bondline thickness, and an optical block (108)fixedly positioned on the dielectric layer, defining an optical axis substantially parallel with the component mounting surface and the bondline thickness selected to align the optical axis of the optical block to the optical axis of the optoelectronic component. Palanisamy et al. does not describe a conductive layer positioned on the component mounting surface adjacent the thermally conductive material.
- 6. U.S, Patent No. 6,713,862 to Palanisamy et al. remains the closest prior art of record in this application. For the reasons stated above, however, Claims 1-20 herein are deemed to patentably distinguish over Palanisamy et al. and all other prior art of record.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-Th (8:30-5:30).

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8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jerry T Rahl

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